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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOX'KET NO.	CONFIRMATION NO.	
10/606,358	06/26/2003	Naohiko Kikuchi	1403-0250P	4535	
2292	7590 03/01/2005		EXAMINER		
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			MAKI, ST	MAKI, STEVEN D	
	, JRCH, VA 22040-074	7	ART UNIT	PAPER NUMBER	
	•		1733		

DATE MAILED: 03/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/606,358	KIKUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Steven D. Maki	1733				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	•					
	action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)  Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-8 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	•				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
<ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 122203,062603.</li> </ul>	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:					

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1) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2) Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida (EP 1072446) in view of Marzocchi (US 3865682) and Watanabe et al (US 2002/0176986) and optionally further in view of Agarwal et al (US 5173136).

Uchida discloses a studless tire having a tread comprising diene rubber and short glass fibers oriented in the thickness direction wherein 1.1 < E1/E2 < 4 and the hardness is 45-75 degrees. The glass fibers have an average fiber diameter of 1-100 micrometers and an average length of 0.1-5 mm. Uchida therefore substantially discloses the claimed invention except for surface treating the short glass fibers.

As to claims 1-8, it would have been obvious to one of ordinary skill in the art to treat the short glass fibers of Uchida with a surface treating agent comprising resorcinol formaldehyde latex (RFL) to improve adhesion of the short glass fibers to the rubber of the tire tread since (1) Marzocchi, directed to glass fiber reinforced rubber material for products such as tires, teaches minimizing the problem of bonding glass fibers to rubber by coating the glass fibers with RFL treating agent, (2) Watanabe et al, directed to glass fibers for fiber reinforced products such as tires, teaches that is common to coat a reinforcing fibers such as glass fibers with RFL treating agent to increase adhesion between the fibers and the rubber and thereby improve durability of the rubber product and optionally (3) Agarwal et al suggests coating short fibers for a tire tread with RFL

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treating agent to improve bonding of the fibers to the rubber of the tread and thereby improve properties such as tear resistance.

## Remarks

3) The remaining references are of interest.

4) No claim is allowed.

5) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven D. Maki whose telephone number is (571) 272-

1221. The examiner can normally be reached on Mon. - Fri. 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on (571) 272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven D. Maki February 27, 2005 STEVEN D. MAKI PRIMARY EXAMINER —GROUP 1800—

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